Freshwater Biology

AUTHOR INDEX

Volume 18

ACOSTA, F.J., *see* COBELAS, M.A.

BENDELL, B.E. and McNICOL, D.K. Estimation of nektonic insect populations 105
BENFIELD, E.F., *see* PETERS, G.T.
BENSON, L.J. and PEARSON, R.G. The role of drift and effect of season on macroinvertebrate colonization of implanted substrata in a tropical Australian stream 109
BERTÉ, S.B., *see* PRITCHARD, G.
BIGGS, B.J.F. Effects of sample storage and mechanical blending on the quantitative analysis of river periphyton 197
BLACK, R.W., II and SLOBODKIN, L.B. What is cyclomorphosis? 373
BRADLEY, M.D.K. and REYNOLDS, J.D. Diet of the leeches *Erpobdella octoculata* (L) and *Helobdella stagnalis* (L) in a lotic habitat subject to organic pollution 267

CHAPIUS, R., *see* GAWLER, M.
COBELAS, M.A., VELASCO, J.L., RUBIO, A. and ACOSTA, F.J. Sizes and daily growth rates of two green algal phytoplankters in the field 125
COLLIER, K.J. and WINTERBOURN, M.J. Faunal and chemical dynamics of some acid and alkaline New Zealand streams 227
COOKE, J.G. and WHITE, R.E. Spatial distribution of denitrifying activity in a stream draining an agricultural catchment 509
COOKE, J.G. and WHITE, R.E. The effect of nitrate in stream water on the relationship between denitrification and nitrification in a stream–sediment microcosm 213
CRAWFORD, R.L., *see* NEWMAN, R.M.
CROSETTI, D. and MARGARITORA, F.G. Distribution and life cycles of cladocerans in temporary pools from Central Italy 165

DAHM, C.N., *see* LARSON, D.W.
DAVEY, M.C. Seasonal variation in the filament morphology of the freshwater diatom *Melosira granulata* (Ehrenb.) Ralfs 5
DAVIES, B.R., *see* KING, J.M.
DAY, J.A., *see* KING, J.M.
DICKMAN, M. Lake sediment microlaminae and annual mortalities of photosynthetic bacteria in an oligomictic lake 151
DRISCOLL, C.T., *see* HALL, R.J.

ELLIOTT, J.M. Temperature-induced changes in the life cycle of *Leuctra nigra* (Plecoptera: Leuctridae) from a Lake District stream 177

FLOWER, R.J. and NICHOLSON, A.J. Relationships between bathymetry, water quality and diatoms in some Hebridean lochs 71
FRIDAY, L.E. The diversity of macroinvertebrate and macrophyte communities in ponds 87
FROST, I. and MILLER, M.C. Late Holocene flooding in the Ecuadorian rain forest 443

GABRIEL, W., TAYLOR, B.E. and KIRSCH-PROKOSCH, S. Cladoceran birth and death rates estimates: experimental comparisons of egg-ratio methods 361
GAWLER, M. and CHAPUIS, R. An improved version of the Haney grazing chamber 1
GEE, A.S., *see* ORMEROD, S.J.
GEIGER, N.S., *see* LARSON, D.W.

HALL, R.J., DRISCOLL, C.T. and LIKENS, G.E. Importance of hydrogen ions and aluminium in regulating the structure and function of stream ecosystems: an experimental test 17
HARRIS, G.P. Time series analysis of water quality data from Lake Ontario: implications for the measurement of water quality in large and small lakes 389
HART, R.C. Population dynamics and production of five crustacean zooplankters in a subtropical reservoir during years of contrasting turbidity 287
HAYASHI, F. and YOSHIDA, T. Seasonal change in the respiration of the dobsonfly larva, *Protohermes grandis* (Megaloptera: Corydalidae) 117

HEANEY, S.I., *see* MATTHEWS, S.I.
HENDRICKS, A.C., *see* TAYLOR, F.
HENSHALL-HOWARD, M-P., *see* KING, J.M.
HURYN, A.D. and WALLACE, J.B. Production and litter processing by crayfish in an Appalachian mountain stream 277

JACOBY, J.M. Alterations in periphyton characteristics due to grazing in a Cascade foothill stream 495
JONES, N.V., *see* PEARSON, R.G.

KELLY, M.G. and WHITTON, B.A. Growth rate of the aquatic moss *Rhynchostegium riparioides* in Northern England 461
KING, J.M., HENSHALL-HOWARD, M-P., DAY, J.A. and DAVIES, B.R. Leaf-pack dynamics in a southern African mountain stream 325
KIRSCH-PROKOSCH, S., *see* GABRIEL, W.
KNOWLES, C.O., *see* McKEE, M.J.
KOLASA, J. Population growth in some *Mesostoma* species (Turbellaria) predatory on mosquitoes 205

LARSON, D.W., DAHM, C.N. and GEIGER, N.S. Vertical partitioning of the phytoplankton assemblage in ultraoligotrophic Crater Lake, Oregon, U.S.A. 429
LIKENS, G.E., *see* HALL, R.J.
LITT, A.H., *see* LUECKE, C.
LUECKE, C. and LITT, A.H. Effects of predation by *Chaoborus flavicans* on crustacean zooplankton of Lake Lenore, Washington 185

MARGARITORA, F.G., *see* CROSETTI, D.
MATTHEWS, P.C. and HEANEY, S.I. Solar heating and its influence on mixing in ice-covered lakes 135
MATTINGLY, R.L. Handling of coarse and fine particulate organic matter by the aquatic insects *Paraleptophlebia gregalis* and *P. temporalis* (Ephemeroptera: Leptophlebiidae) 255
MATTINGLY, R.L. Resource utilization by the freshwater deposit feeder *Ptychoptera townesi* (Diptera: Ptychopteridae) 241
McCAFFERTY, W.P., *see* McSHAFFREY, D.
McKEE, M.J. and KNOWLES, C.O. Levels of protein, RNA, DNA, glycogen and lipid during growth and development of *Daphnia magna* Straus (Crustacea: Cladocera) 341
McNICOL, D.K., *see* BENDELL, B.E.
McSHAFFREY, D. and McCAFFERTY, W.P. The behaviour and form of *Psephenus herricki* (DeKay) (Coleoptera: Psephenidae) in relation to water flow 319
MILLER, J.C. Evidence for the use of non-detrital dissolved organic matter by microheterotrophs on plant detritus in a woodland stream 483
MILLER, M.C., *see* FROST, I.
MILNER, A.M. Colonization and ecological development of new streams in Glacier Bay National Park, Alaska 53

NEWMAN, R.M., PERRY, J.A., TAM, E. and CRAWFORD, R.L. Effects of chronic chlorine exposure on litter processing in outdoor experimental streams 415
NICHOLSON, A.J., *see* FLOWER, R.J.

O'HARA, K. and PENCZAK, T. Production of the three-spined stickleback, *Gasterosteus aculeatus* L., in the River Weaver, England 353
ORMEROD, S.J., WADE, K.R. and GEE, A.S. Macro-floral assemblages in upland Welsh streams in relation to acidity, and their importance to invertebrates 545

PEARSON, R.G. and JONES, N.V. Short-term movements of chalk-stream invertebrates 559
PEARSON, R.G., *see also* BENSON, L.J.
PENCZAK, T., *see* O'HARA, K.
PERRY, J.A., *see* NEWMAN, R.M.
PETERS, G.T., WEBSTER, J.R. and BENFIELD, E.F. Microbial activity associated with seston in headwater streams: effects of nitrogen, phosphorus and temperature 405
PETERSON, C.G. Gut passage and insect grazer selectivity of lotic diatoms 455
PRITCHARD, G. and BERTÉ, S.B. Growth and food choice by two species of limnephilid caddis larvae given natural and artificial foods 529

RADER, R.B. and WARD, J.V. Resource utilization, overlap and temporal dynamics in a guild of mountain stream insects 521
REYNOLDS, J.D., *see* BRADLEY, M.D.K.
RUBIO, A., *see* COBELAS, M.A.

SLOBODKIN, L.B., *see* BLACK, R.W., II

TAM, E., *see* NEWMAN, R.M.
TAYLOR, B.E., *see* GABRIEL, W.
TAYLOR, F. and HENDRICKS, A.C. The influence of fish on leaf breakdown in a Virginia pond 45

VELASCO, J.L., *see* COBELAS, M.A.

WADE, K.R., *see* ORMEROD, S.J.
WALLACE, J.B., *see* HURYN, A.D.
WARD, J.V., *see* RADER, R.B.
WARINGER, J.A. Spatial distribution of Trichoptera larvae in the sediments of an Austrian mountain brook 469
WEBSTER, J.R., *see* PETERS, G.T.
WEISNER, S.E.B. The relation between wave exposure and distribution of emergent vegetation in a eutrophic lake 537
WHITE, R.E., *see* COOKE, J.G.
WHITTON, B.A., *see* KELLY, M.G.
WINTERBOURN, M.J., *see* COLLIER, K.J.

YOSHIDA, T., *see* HAYASHI, F.